



CONTENTS

LIFE AND SCIENCE, <i>Wladimir A. Engelhardt</i>	1
ENZYMOLGY OF OXYGEN, <i>Bo G. Malmström</i>	21
DNA REPAIR ENZYMES, <i>Tomas Lindahl</i>	61
CHROMATIN, <i>Tibor Igo-Kemenes, Wolfram Hörz, and Hans G. Zachau</i>	89
THE CONFORMATION, FLEXIBILITY, AND DYNAMICS OF POLYPEPTIDE HORMONES, <i>Tom Blundell and Stephen Wood</i>	123
COMPONENTS OF BACTERIAL RIBOSOMES, <i>H. G. Wittmann</i>	155
PROTON ELECTROCHEMICAL GRADIENTS AND ENERGY-TRANSDUCTION PROCESSES, <i>Stuart J. Ferguson and M. Catia Sorgato</i>	185
INTERMEDIATE FILAMENTS: A CHEMICALLY HETEROGENEOUS, DEVELOPMENTALLY REGULATED CLASS OF PROTEINS, <i>Elias Lazarides</i>	219
BIOCHEMISTRY OF INTERFERONS AND THEIR ACTIONS, <i>Peter Lengyel</i>	251
ENZYMES OF THE RENIN-ANGIOTENSIN SYSTEM AND THEIR INHIBITORS, <i>M. A. Ondetti and D. W. Cushman</i>	283
PHYTOTOXINS, <i>Gary A. Strobel</i>	309
MECHANISMS OF INTRACELLULAR PROTEIN BREAKDOWN, <i>Avram Hershko and Aaron Ciechanover</i>	335
MAGNETIC RESONANCE STUDIES OF ACTIVE SITES IN ENZYMIC COMPLEXES, <i>Mildred Cohn and George H. Reed</i>	365
THE THREE-DIMENSIONAL STRUCTURE OF DNA, <i>Steven B. Zimmerman</i>	395
FIDELITY OF DNA SYNTHESIS, <i>Lawrence A. Loeb and Thomas A. Kunkel</i>	429
SPECIFIC INTERMEDIATES IN THE FOLDING REACTIONS OF SMALL PROTEINS AND THE MECHANISM OF PROTEIN FOLDING, <i>Peter S. Kim and Robert L. Baldwin</i>	459

vi CONTENTS

THE NICOTINIC CHOLINERGIC RECEPTOR: CORRELATION OF MOLECULAR STRUCTURE WITH FUNCTIONAL PROPERTIES, <i>B. M. Conti-Tronconi and M. A. Raftery</i>	491
CARBOHYDRATE-SPECIFIC RECEPTORS OF THE LIVER, <i>Gilbert Ashwell and Joe Harford</i>	531
STEROL BIOSYNTHESIS, <i>George J. Schroepfer, Jr.</i>	555
BACTERIORHODOPSIN AND RELATED PIGMENTS OF HALOBACTERIA, <i>Walther Stoeckenius and Roberto A. Bogomolni</i>	587
SnRNAs, SnRNPs, AND RNA PROCESSING, <i>Harris Busch, Ramachandra Reddy, Lawrence Rothblum, and Yong C. Choi</i>	617
CHEMICAL MUTAGENESIS, <i>B. Singer and J. T. Kuśmierk</i>	655
THE MOLECULAR BIOLOGY OF TRYPA NOSOMES, <i>Paul T. Englund, Stephen L. Hajduk, and Joan C. Marini</i>	695
MOLECULAR MECHANISMS IN GENETIC RECOMBINATION, <i>David Dressler and Huntington Potter</i>	727
SYNTHESIS OF THE YEAST CELL WALL AND ITS REGULATION, <i>Enrico Cabib, Rowena Roberts, and Blair Bowers</i>	763
ENZYME THERAPY: PROBLEMS AND SOLUTIONS, <i>John S. Holcenberg</i>	795
REPETITIVE SEQUENCES IN EUKARYOTIC DNA AND THEIR EXPRESSION, <i>Warren R. Jelinek and Carl W. Schmid</i>	813
THE BIOLOGY AND MECHANISM OF ACTION OF NERVE GROWTH FACTOR, <i>Bruce A. Yankner and Eric M. Shooter</i>	845
INITIATION FACTORS IN PROTEIN BIOSYNTHESIS, <i>Umadás Maitra, Evan A. Stringer, and Asok Chaudhuri</i>	869
EUKARYOTIC DNA REPLICATION: VIRAL AND PLASMID MODEL SYSTEMS, <i>Mark D. Challberg and Thomas J. Kelly</i>	901
SUBUNIT COOPERATION AND ENZYMATI C CATALYSIS, <i>Charles Y. Huang, Sue Goo Rhee, and P. Boon Chock</i>	935
INDEXES	
Author Index	973
Subject Index	1028
Cumulative Index of Contributing Authors, Volumes 47-51	1044
Cumulative Index of Chapter Titles, Volumes 47-51	1047

